PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

032/0408		FOR FURTHER ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.
mternational	application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IL20	04/001169	26/12/2004	1
Applicant		20/12/2004	15/01/2004
ALGOTEC	SYSTEMS LTD.		
		een prepared by this International Searching Auth transmitted to the International Bureau.	nority and is transmitted to the applicant
This Internat	tional Search Report consis	sts of a total ofsheets.	
	It is also accompanied	by a copy of each prior art document cited in this	report,
	the report		
langi	uage in which it was filed, u	e international search was carried out on the basi Inless otherwise indicated under this item.	is of the international application in the
	The internation this Authority (F	al search was carried out on the basis of a transla Rule 23.1(b)).	ation of the international application furnished to
b		eotide and/or amino acid sequence disclosed i	
2.		ound unsearchable (See Box II).	, , , , , , , , , , , , , , , , , , , ,
3. <u>X</u>	Unity of invention is la		
4. With rega	ard to the title ,	,	
X	•	submitted by the applicant.	
		ished by this Authority to read as follows:	
. With regar	rd to the abstract,		
X	the text is approved as su	ubmitted by the applicant	
	the text has been established	shed, according to Rule 38.2(b), by this Authority a orn the date of mailing of this international search	as it appears in Box No. IV. The applicant report, submit comments to this Authority
With regar			i de due i de la comp.
	d to the drawings ,	white a second	
- mengi	as suggested by	sublished with the abstract is Figure No. 7	
	as selected by thi	s Authority, because the applicant failed to sugges	st a figure.
b. 🗍	none of the floures is to be	s Authority, because this figure better characterize	es the invention.
	or the rightes is to be	published with the abstract.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/IL2004/001169

A. CLAS	SIFICATION OF SUBJECT MATTER		FCI/IL2004/001169
IPC 7	G06T7/60		
According	to International Patent Classification (IPC) or to both nation		
B. FIELDS	S SEARCHED	al classification and IPC	
Minimum c	documentation searched (classification system followed by	classification cymbols)	
IPC 7	G06T	Sidesification symbols)	
Documente			
Documents	ation searched other than minimum documentation to the ex	tent that such documents are inc	cluded in the fields searched
Electronic	data hago come hell i		
FPO-In	data base consulted during the international search (name o	f data base and, where practica	il, search terms used)
LFU-111	nternal, WPI Data, PAJ, INSPEC,	IBM-TDB	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		•
Category °	Citation of document, with indication, where appropriate,	of the relevant passages	
			Relevant to claim No.
A	LI R ET AL: "Combining from	t propagation	1-72,
	with shape knowledge for acc curvilinear modeling"	86-94	
	MEDICAL IMAGE COMPUTING AND		
j	COMPUTER-ASSISTED INTERVENTE	ON - MICCAI	
ı	2003. OIH INTERNATIONAL CONF	FRENCE	
	PROCEEDINGS. PART II (LECTUR	E NOTES IN	
	COMPUT. SCI. VOL. 2879) SPRI BERLIN, GERMANY, 2003, pages	NGER - VERLAG	
	APUU2325/88	00-74,	
}	ISBN: 3-540-20464-4		
	the whole document		
		-/	
İ		-/	
X Furthe	er documents are listed in the continuation of box C.	Patent family m	embers are listed in annex.
pecial cate	gories of cited documents :		
" document	t defining the general state of the art which is not		shed after the international filing date not in conflict with the application but
earlier doc	cument but published on or after the international	invention	the principle or theory underlying the
document	which may throw doubte an arise its action at a		ar relevance; the claimed invention ed novel or cannot be considered to
citation o	or other special reason (as specified)	"Y" document of particula	step when the document is taken alone
document other me:	t referring to an oral disclosure, use, exhibition or	document is combin	ed with one or more either and the
document	published prior to the international filing date but the priority date claimed	in the art.	ation being obvious to a person skilled
	tual completion of the international search	"&" document member of	
			international search report
28	April 2005	09: 11.	2005
me and mail	ling address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk		
	Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Herter,	ບ
	(second sheet) (January 2004)		-

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/IL2004/001169

uation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/IL2004/001169	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
SETHIAN J A: "Level set methods and fast marching methods" [Online] 1999, CAMBRIDGE UNIVERSITY PRESS, XP002325674 Retrieved from the Internet: URL:http://math.berkeley.edu/~sethian/Books/sethian book.ps> [retrieved on 2005-04-20] the whole document	1-72, 86-94	
DESCHAMPS T ET AL: "Fast extraction of minimal paths in 3D images and applications to virtual endoscopy" MEDICAL IMAGE ANALYSIS, OXFORD UNIVERSITY PRESS, OXOFRD, GB, vol. 5, 2001, pages 281-299, XP002904305 ISSN: 1361-8415 the whole document	1-72, 86-94	
COHEN L D ET AL: "GLOBAL MINIMUM FOR ACTIVE CONTOUR MODELS: A MINIMAL PATH APPROACH" INTERNATIONAL JOURNAL OF COMPUTER VISION, KLUWER ACADEMIC PUBLISHERS, NORWELL, US, vol. 24, no. 1, August 1997 (1997-08), pages 57-78, XP0000703576 ISSN: 0920-5691 cited in the application the whole document	1-72, 86-94	
WINK O ET AL: "3D MRA CORONARY AXIS DETERMINATION USING A MINIMUM COST PATH APPROACH" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 47, no. 6, June 2002 (2002-06), pages 1169-1175, XP001170393 ISSN: 0740-3194 the whole document	1-72, 86-94	
MADDAH MAHNAZ ET AL: "Efficient center-line extraction for quantification of vessels in confocal microscopy images" MEDICAL PHYSICS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 30, no. 2, February 2003 (2003-02), pages 204-211, XP012011984 ISSN: 0094-2405 the whole document	1-72, 86-94	
	SETHIAN J A: "Level set methods and fast marching methods" [Online] 1999, CAMBRIDGE UNIVERSITY PRESS, XP002325674 Retrieved from the Internet: URL:http://math.berkeley.edu/~sethian/Book s/sethian_book.ps> [retrieved on 2005-04-20] the whole document DESCHAMPS T ET AL: "Fast extraction of minimal paths in 3D images and applications to virtual endoscopy" MEDICAL IMAGE ANALYSIS, OXFORD UNIVERSITY PRESS, OXOFRD, GB, vol. 5, 2001, pages 281-299, XP002904305 ISSN: 1361-8415 the whole document COHEN L D ET AL: "GLOBAL MINIMUM FOR ACTIVE CONTOUR MODELS: A MINIMAL PATH APPROACH" INTERNATIONAL JOURNAL OF COMPUTER VISION, KLUWER ACADEMIC PUBLISHERS, NORWELL, US, vol. 24, no. 1, August 1997 (1997-08), pages 57-78, XP000703576 ISSN: 0920-5691 cited in the application the whole document WINK O ET AL: "3D MRA CORONARY AXIS DETERMINATION USING A MINIMUM COST PATH APPROACH" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 47, no. 6, June 2002 (2002-06), pages 1169-1175, XP001170393 ISSN: 0740-3194 the whole document MADDAH MAHNAZ ET AL: "Efficient center-line extraction for quantification of vessels in confocal microscopy images" MEDICAL PHYSICS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 30, no. 2, February 2003 (2003-02), pages 204-211, XP012011984 ISSN: 0094-2405	

INTERNATIONAL SEARCH REPORT

International application No. PCT/I L2004/001169

Where Cer	rtain claims were found unsearchable (Continuation of item 2 of first sheet)
	not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject	ot matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts o an extent that no meaningful I	of the International Application that do not comply with the prescribed requirements to such International Search can be carried out, specifically:
	claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity	y of invention is lacking (Continuation of Item 3 of first sheet)
·	ound multiple inventions in this international application, as follows:
see additional she	eet
. As all required additional search searchable claims.	h fees were timely paid by the applicant, this International Search Report covers all
As all searchable claims could a of any additional fee.	be searched without effort justifying an additional fee, this Authority did not invite payment
As only some of the required ad covers only those claims for whi	dditional search fees were timely paid by the applicant, this International Search Report ich fees were paid, specifically claims Nos.:
No required additional search ferestricted to the invention first material of the invention of th	es were timely paid by the applicant. Consequently, this International Search Report is entioned in the claims; it is covered by claims Nos.:
emark on Protest	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-72,86-94

centerline finding for a tubular tissue in a medical image data set

2. claims: 73-80

segmentation of an organ in a medical data set

3. claims: 81-85

propagation fo a parametrization in a medical data set